

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	164	548/515.ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2007/06/17 17:37
S2	572	514/412.ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2007/06/17 14:03
S3	714	S1 OR S2	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2007/06/17 14:04
S4	160	S3 AND (AZABICYCLO OR "3-AZABICYCLO[3.1.0]HEXANE")	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2007/06/17 14:05
S5	164	548/515.ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2007/06/17 17:37
S6	572	514/412.ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2007/06/17 17:37
S7	714	S5 OR S6	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2007/06/17 17:37
S8	14	S7 and ("3-azabicyclo[3.1.0]" or "3-azabicyclo[3.1.0]hex-6-yl")	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2007/06/17 17:37

STN Structure Search (Registry/Caplus)

10/552,502

06/21/2007,

17:

Saturation

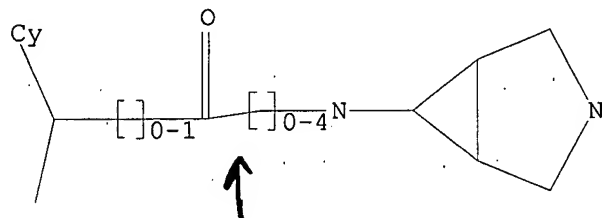
: Unsaturated

L1 STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1 STR



G1 O, S, N

No X (=bond)

Structure attributes must be viewed using STN Express query preparation.

=>

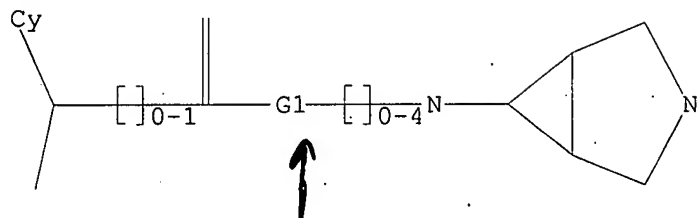
Uploading C:\Program Files\Stnexp\Queries\10552502\X is O S N.str

L2 STRUCTURE UPLOADED

=> d

L2 HAS NO ANSWERS

L2 STR



G1 O, S, N

X=O,S,N

Structure attributes must be viewed using STN Express query preparation.

=> s 11

SAMPLE SEARCH INITIATED 14:35:34 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 298 TO ITERATE

100.0% PROCESSED 298 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

 FULL FILE PROJECTIONS: ONLINE **COMPLETE** ✓
 BATCH **COMPLETE**

PROJECTED ITERATIONS: 4925 TO 6995

PROJECTED ANSWERS: 0 TO 0

L3 0 SEA SSS SAM L1

=> s 12

SAMPLE SEARCH INITIATED 14:35:39 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 453 TO ITERATE

100.0% PROCESSED 453 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

 FULL FILE PROJECTIONS: ONLINE **COMPLETE** ✓
 BATCH **COMPLETE**

PROJECTED ITERATIONS: 7784 TO 10336

PROJECTED ANSWERS: 0 TO 0

L4 0 SEA SSS SAM L2

=> s 11 full ✓

FULL SEARCH INITIATED 14:35:43 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED ✓ 5217 TO ITERATE

100.0% PROCESSED ✓ 5217 ITERATIONS

SEARCH TIME: 00.00.01

2 ANSWERS

L5 2 SEA SSS FUL L1

=> s 12 full

FULL SEARCH INITIATED 14:35:47 FILE 'REGISTRY'

10/552,502

06/21/2007,

FULL SCREEN SEARCH COMPLETED ✓ 8296 TO ITERATE

100.0% PROCESSED ✓ 8296 ITERATIONS
SEARCH TIME: 00.00.01

0 ANSWERS

L6 0 SEA SSS FUL L2

=> d scan 15

=> fil caplus ✓
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
344.20	344.41

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 14:36:09 ON 21 JUN 2007
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FILE COVERS 1907 - 21 Jun 2007 VOL 146 ISS 26
FILE LAST UPDATED: 20 Jun 2007 (20070620/ED)

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=> d his

(FILE 'HOME' ENTERED AT 14:34:57 ON 21 JUN 2007)

FILE 'REGISTRY' ENTERED AT 14:35:05 ON 21 JUN 2007

L1	STRUCTURE UPLOADED
L2	STRUCTURE UPLOADED
L3	0 S L1
L4	0 S L2
L5	2 S L1 FULL
L6	0 S L2 FULL

FILE 'CAPLUS' ENTERED AT 14:36:09 ON 21 JUN 2007

=> s 15

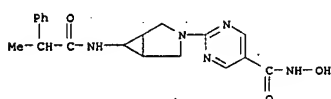
L7 2 L5

=> d ibib abs hitstr 1-2

L7 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS ON STN
 ACCESSION NUMBER: 2006:1226133 CAPLUS
 DOCUMENT NUMBER: 145:505473
 TITLE: Preparation of hydroxamic acids as histone deacetylase inhibitors for use against proliferative diseases including cancers
 INVENTOR(S): Moffat, David Festus Charles; Patel, Sanjay Ratilal; Mazzei, Francesca Ann; Belfield, Andrew James; Van Meurs, Sandra
 PATENT ASSIGNEE(S): Chroma Therapeutics Ltd, UK
 SOURCE: PCT Int. Appl., 120pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006123121	A1	20061123	WO 2006-GB1779	20060515
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, GU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	NT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
GB 2429707	A	20070307	GB 2006-18717	20060515
GB 2429707	B	20070613		
PRIORITY APPLN. INFO.:			GB 2005-10204	A 20050519
			WO 2006-GB1779	W 20060515
OTHER SOURCE(S):	MARPAT 145:505473			
GI				

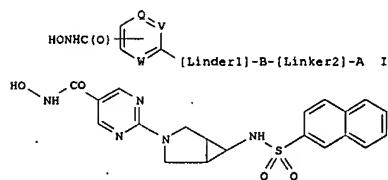
L7 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)
 (drug candidate; prepn. of hydroxamic acids as histone deacetylase inhibitors for use against proliferative diseases including cancers)
 RN 914937-32-9 CAPLUS
 CN 5-Pyrimidinecarboxamide, N-hydroxy-2-[6-[(1-oxo-2-phenylpropyl)amino]-3-azabicyclo[3.1.0]hex-3-yl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

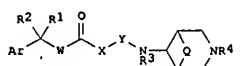
L7 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS ON STN (Continued)



AB Hydroxamic acids (shown as I; variables defined below; e.g. N-hydroxy-2-[6-[(1-(2-naphthyl)sulfonyl]amino)-3-azabicyclo[3.1.0]hex-3-yl]pyrimidine-5-carboxamide hydrochloride (free base shown as II)) and salts, N-oxides, hydrates and solvates thereof are histone deacetylase inhibitors and are useful in the treatment of cell proliferative diseases, including cancers. For I: Q, V and W = N or C; B is a divalent radical = azetidin-1,3-diyl (N on left), 3-azabicyclo[3.1.0]hexane-3,6-diyl (N on either side), hexahydropyrrolo[3,4-c]pyrrole-2,5-diyl and 3,9-diazaspiro[5.5]undecane-3,9-diyl; A is an (un)substituted mono-, bi- or tri-cyclic carbocyclic or heterocyclic ring system; and -[Linker1]- and -[Linker2]- = a bond, or a divalent linker radical; addnl. details are given in the claims. Although the methods of preparation are not claimed, preps. and/or characterization data for .apprx.80 examples of I are included. For example, II was prepared in 6 steps (82, not given, 85, 93, 87 and 75 % yields, resp.) starting with condensation of tert-Bu 6-amino-3-azabicyclo[3.1.0]hexane-3-carboxylate (preparation given) with 2-naphthalenesulfonyl chloride to give tert-Bu 6-[(1-(2-naphthyl)sulfonyl]amino)-3-azabicyclo[3.1.0]hexane-3-carboxylate, which was deprotected and alkylated by Et 2-(methylsulfonyl)pyrimidine-5-carboxylate (preparation given) to give Et 2-[6-[(1-(2-naphthyl)sulfonyl]amino)-3-azabicyclo[3.1.0]hex-3-yl]pyrimidine-5-carboxylate, which was saponified and condensed with O-(1-isobutoxyethyl)hydroxylamine to give N-(1-isobutoxyethoxy)-2-[6-[(1-(2-naphthyl)sulfonyl]amino)-3-azabicyclo[3.1.0]hex-3-yl]pyrimidine-5-carboxamide, which was cleaved by HCl to give the final product. Semiquant. IC50 values for inhibition of histone deacetylase and U937, HUT and Hela human cell lines are tabulated for .apprx.80 examples of I.
 IT 914937-32-9P, N-Hydroxy-2-[6-[(1-phenylpropionyl)amino]-3-azabicyclo[3.1.0]hex-3-yl]pyrimidine-5-carboxamide
 RI: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

L7 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS ON STN
 ACCESSION NUMBER: 2004:648506 CAPLUS
 DOCUMENT NUMBER: 141:190686
 TITLE: Preparation of 3,6-disubstituted azabicyclohexanes as muscarinic receptor antagonists
 INVENTOR(S): Mehra, Anita; Silanku, Arundutt V.; Kumar, Naresh; Gupta, Jang Bahadur
 PATENT ASSIGNEE(S): Ranbaxy Laboratories Limited, India
 SOURCE: PCT Int. Appl., 115 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004067510	A1	20040812	WO 2003-IB256	20030128
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, GR, GU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU 2003202727	A1	20040823	AU 2003-202727	20030128
EP 1590325	A1	20051102	EP 2004-01638	20030128
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
US 2006247225	A1	20061102	US 2005-543585	20050727
PRIORITY APPLN. INFO.:			WO 2003-IB256	A 20030128
OTHER SOURCE(S):	CASREACT 141:190686; MARPAT 141:190686			
GI				



AB Title compds. [I; Ar = (substituted) aryl, heteroaryl; R1 = H, OH, HOCH2, alkyl, amino, alkoxy, cycloalkyl, carbamoyl, halo, aryl; R2 = alkyl, cycloalkyl, cycloalkenyl, (substituted) aryl, heteroaryl; W = (CH2)p; p = 0, 1; X = O, S, NR, null; Y = CHR3CO; R5 = H, Me, (CH2)q; q = 0-4; Q = (CH2)m; m = 0-2; R3 = H, alkyl, CO2Me3; R4 = (unsubst.) (substituted) aliphatic], were prepared Thus, 5-bromo-4-methylpent-3-ene, (1a,5a,6a)-6-tert-butoxycarbonylamino-3-azabicyclo[3.1.0]hexane, and K2CO3 were refluxed 5 h in MeCN to give (1a,5a,6a)-N-3-(4-methyl-pentenyl)-6-tert-butoxycarbonylamino-3-azabicyclo[3.1.0]hexane. This was treated with aqueous HCl in EtOAc at 0° to give (1a,5a,6a)-N-3-(4-methyl-3-pentenyl)-6-amino-3-azabicyclo[3.1.0]hexane. The latter was

L7 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
stirred with 2-hydroxy-2-cyclopentyl-2-(4-methoxyphenyl)acetic acid,
hydroxybenzotriazole, N-methylmorpholine, and EDC.HCl in DMF at 0°
to room temp. to give (1 α ,5 α ,6 α)-N-[3-(4-methyl-3-
pentenyl)-3-azabicyclo[3.1.0]hex-6-yl]-2-hydroxy-2-cyclopentyl-2-(4-
methoxyphenyl)acetamide. In a contractile assay using rat bladder
strips,
I showed pKB = 5.08-8.36 nM.
IT 738629-21-5P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
(Uses)
(drug candidate: preparation of 3,6-disubstituted azabicyclohexanes as
muscarinic receptor antagonists)
RN 738629-21-5 CAPLUS
CN Benzeneacetamide, α -hydroxy- α -methyl-N-
[(1 α ,5 α ,6 α)-3-(phenylmethyl)-3-azabicyclo[3.1.0]hex-6-
yl]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

